



# Education and Public Outreach

**Dr. Steven J. Dick**

**E/PO Lead**

**USNO**

**202-762-0379**

**[dick.steve@usno.navy.mil](mailto:dick.steve@usno.navy.mil)**



# FAME E/PO Goals and Objectives



- **FAME Addresses Key Questions of 3 NASA Themes: Origins, Structure and Evolution of the Universe, and Solar System**
- **Educate Non-scientists and Students About the Search for Planetary Systems, Physical Characteristics of Stars, and Size and Distance Scale of the Galaxy Using Precision Astrometry**
- **Employ Standards-based Learning**
- **Demonstrate the Close Relationship Between Science, Technology and Mathematics**
- **Demonstrate Nature of Science Themes: Importance of Reasoning As a Team, Interpretation of Data, Evidence and Inference**



# CSR E/PO Plan



- **Envisioned:**
- **Master Teacher Program**
- **Small and Large Planetarium Shows on Distance, Size and Scale**
- **FAME Workshops at Science and Planetarium Conventions**
- **FAME E/PO Web Site**
- **Interactive Program With Washington, DC Schools**



# Current FAME E/PO Components



- **After Meetings and Consultations With Origins Forum (Terry Teays, Carole Rest), the SERCH Broker/Facilitator (Cass Runyon), and Others:**
  - **Master Teacher Program**
  - **Small Planetarium Show on Distance, Size and Scale**
  - **FAME Workshops at Science and Planetarium Conventions**
  - **Traveling Exhibits to Libraries**
  - **FAME E/PO Web Site**
  - **Leverage With Origins Forum to Represent FAME at Public and Professional Meetings: NSTA, etc**



# Implementation of FAME E/PO Components (1 of 3)



- **Harvard-Smithsonian Center for Astrophysics Science Education Dept (SED)**
  - **Coordinators**      **Phil Sadler and R. Bruce Ward**
  - **Target Audience** **Middle School**
  - **Theme**      **Size and Distance Scale of the Galaxy**
- **Master Teacher Program**
  - **Recruit 50 Grade 5-8 Classroom Educators to Attend FAME Workshops at SED, Prepare Them to Lead Interdisciplinary Workshops in Schools, at State and Regional Conferences, and Public Venues**
- **Small Planetarium Program - Multimedia Astrometric Program**
  - **Distributed Free of Charge to 50 Sites Nationwide**
- **FAME Workshops at Major Conferences**
- **Status**
  - **Has Gone Through Navy Contracting, Awaiting Funding**



# Implementation of FAME E/PO Components (2 of 3)



- **Carnegie Institute of Washington, Carnegie Academy for Science Education (CASE)**
  - **Coordinator: Chuck James**
- **Traveling Exhibit in Conjunction With American Library Association**
- **100 Informational Kiosks to Travel to Libraries Around the Country**
- **Corporate Sponsor Will Fund Construction, Delivery and Upgrading of Kiosks, FAME Will Fund the Content**
- **FAME Exhibit Will Rotate With Messenger and Astrobiology Programs**
- **Status**
  - **Awaiting Corporate Funding**



# Implementation of FAME E/PO Components (3 of 3)



- **U. S. Naval Observatory**
  - **Hosts Web Site and Oversees Its Development**
  - **Develops Brochures, Posters, Exhibits, Press Releases**
  - **Provides E/PO Management**



# Strategy for Serving Underprivileged



- **Master Teacher Program: Approximately 25 % of Teacher Participants Will Be Members of Underrepresented Groups**
- **CASE Will Work With Nancy Leon and Others to Ensure Minority Representation in Targeted Libraries**
- **USNO Will Ensure Access & Broadest Possible Dissemination of Its Materials to Minorities**





# FAME Timeline

